

# Panasonic®

## Operating Instructions

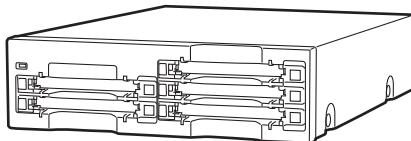
### Memory Card Drive



Model No. **AJ-PCD35P**

Model No. **AJ-PCD35E**

Model No. **AJ-PCD35EJ**



Before operating this product, please read the instructions carefully and save this manual for future use.

# Read this first!

## For AJ-PCD35P and AJ-PCD35E/EJ

### **WARNING:**

This apparatus must be earthed.

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

### **WARNING:**

- To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
- To reduce the risk of fire or electric shock, keep this equipment away from all liquids. Use and store only in locations which are not exposed to the risk of dripping or splashing liquids, and do not place any liquid containers on top of the equipment.

### **CAUTION:**

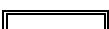
To reduce the risk of fire or electric shock and annoying interference, use the recommended accessories only.

### **CAUTION:**

The mains plug of the power supply cord shall remain readily operable.

The AC receptacle (mains socket outlet) shall be installed near the equipment and shall be easily accessible.

To completely disconnect this equipment from the AC mains, disconnect the mains plug from the AC receptacle.

 indicates safety information.

### **Notice (U.S.A. only):**

Disposal may be regulated in your community due to Environmental considerations.

For disposal or recycling information, please visit Panasonic website:

<http://www.panasonic.com/environmental> or call 1-888-769-0149.

Pursuant to at the directive 2004/108/EC, article 9(2)

Panasonic Testing Centre

Panasonic Service Europe, a division of Panasonic Marketing Europe GmbH

Winsbergring 15, 22525 Hamburg, F.R. Germany

## **Read this first! (continue)**

### **For AJ-PCD35P**

#### **FCC NOTICE**

##### **Declaration of Conformity**

Model Number: AJ-PCD35P

Trade Name: Panasonic

Responsible Party: Panasonic Corporation of North America One Panasonic Way, Secaucus, NJ 07094

Support contact: 1-800-524-1448

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

To assure continued compliance, follow the attached installation instructions and do not make any unauthorized modifications.

#### **CAUTION:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

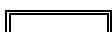
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the booklet "Something About Interference" available from FCC local regional offices helpful.

**FCC Warning:** To assure continued FCC emission limit compliance, follow the attached installation instructions and the user must use only shielded interface cables when connecting to host computer or peripheral devices. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate this device.

#### **NOTIFICATION (Canada)**

This class B digital apparatus complies with Canadian ICES-003.

 indicates safety information.

## Read this first! (continue)

### For AJ-PCD35E/EJ

#### Caution for AC Mains Lead

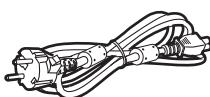
##### FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.

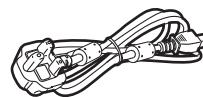
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

##### FOR CONTINENTAL EUROPE, ETC.

Not to be used in the U.K.



##### FOR U.K. ONLY



##### FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 13 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

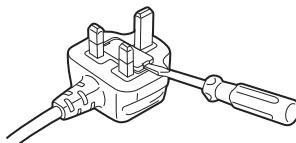
If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

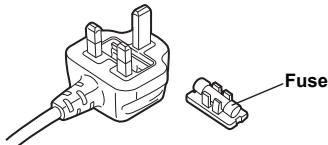
A replacement fuse cover can be purchased from your local Panasonic Dealer.

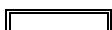
##### How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



 indicates safety information.

EEE Yönetmeliğine Uygundur.

EEE Complies with Directive of Turkey.

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**Macintosh, Mac and Mac OS are trademarks of Apple Inc. of the United States.**

**PCI Express and PCIe are trademarks of PCI-SIG.**

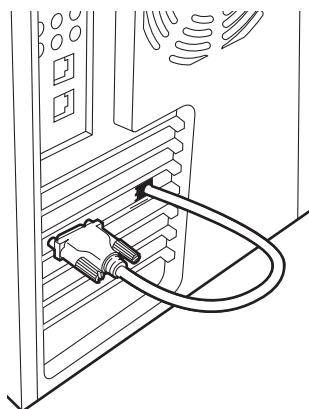
**Other names of companies and products are trademarks or registered trademarks of the respective companies.**

- In these instructions, Microsoft® Windows®, Windows® XP Professional, Windows Vista® Business, Windows Vista® Ultimate, Windows® 7 Professional, and Windows® 7 Ultimate, are given as "Windows", "Windows XP Professional", "Windows Vista Business", "Windows Vista Ultimate", "Windows 7 Professional" and "Windows 7 Ultimate", respectively.
- Similarly, in these instructions, Macintosh®, Mac® Pro and Mac OS® X are given as "Macintosh", "Mac Pro" and "Mac OS X" respectively.
- Similarly, in these instructions, PCI Express® and PCIe® are given as "PCI Express" and "PCIe" respectively.

# Before use

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- While AJ-PCD35 is connected to the personal computer, install the required drivers from the CD-ROM.  
For details, refer to the install manual and “PCI Express Driver for Windows” (page 15) or “PCI Express Driver for Macintosh” (page 17) in this document.
- The AJ-PCD35 may become warm during use, but this is not a malfunction.
- When using the AJ-PCD35 mounted internally, part of the PCI Express cable will extend to the exterior of the personal computer. Place the personal computer with the AJ-PCD35 internally mounted in an area with sufficient space around the back of the computer.



## Overview

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The AJ-PCD35 (hereinafter referred to as “P2 drive”) is a data transfer device that uses a PCI Express interface and is designed only for P2 cards.

The P2 drive is capable of making high-speed transfers of clip data shot with a memory card camera recorder for P2 cards to a personal computer (Windows/Apple Macintosh).

This device supports not only the transferring and copying of clips recorded on P2 cards, but also direct editing.

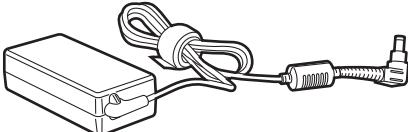
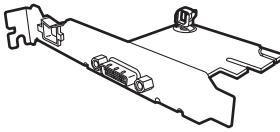
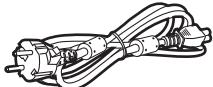
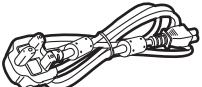
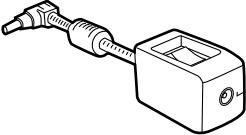
## Features

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- The P2 drive features five card slots.
- It can be used as either an external or an internal drive. (only Windows)
- It is capable of high speed data transfer of over 1.0 Gbps\*.

\* The transfer speed varies depending on the file to be transferred, the system, the application software, the P2 card version and other conditions.

# Supplied Accessories (AJ-PCD35P/AJ-PCD35E/EJ)

<b>AC adapter</b> 	<b>PCI Express board</b> 	<b>Mounting screws (8)</b> 
<b>Power cable for AC adapter</b>  For AJ-PCD35P	<b>PCI Express cable</b> 	<b>Rubber feet (4)</b> 
 For AJ-PCD35E/EJ (continental Europe,etc)	 For AJ-PCD35E/EJ (U.K.)	
<b>Power switch box (AJ-PCD35EJ only)</b> 	<b>CD-ROM</b> 	

## Operating Environment Required for Installation

To operate the P2 drive, the following environment is required on the host computer.

- Empty slot(s) (full height) for the PCI Express : 1 or more

To mount the each P2 drive in a personal computer, 1 empty slot is required. It is possible to connect up to 2 units.

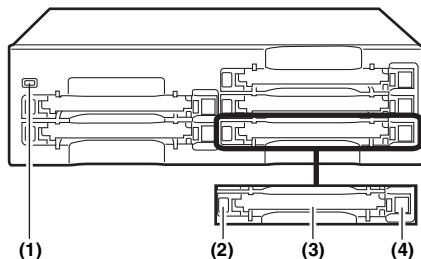
Operation may not be possible with graphic card slots.

The following environment is recommended for the host computer to make full use of the features of P2 drive.

- A striping configuration using 4 or more hard disk drives is recommended to attain sufficient transfer speed when transferring data to the hard disk drive.

# Parts and their Functions

## Front Panel



### (1)Power Indicator

This indicator lights up in green when the P2 drive is running.

### (2)Status Indicator

This indicator blinks in green during access to a P2 card.

**<Note>**

Do not remove the P2 card during access of the card, otherwise files may be corrupted, or the P2 card may fail.

### (3)Card Slots

The P2 drive's card slots are designed for P2 cards.

The P2 drive does not operate with cards other than P2 cards.

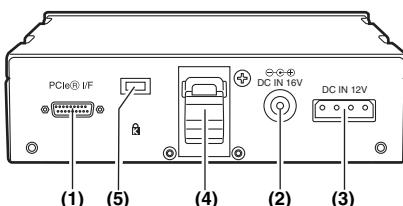
### (4)EJECT Button

To remove a P2 card, press this button so that the button pops out, then press it in again.

**<Note>**

For Macintosh only: To remove a P2 card, drag the icon of the P2 card to "Trash," and then press the EJECT button after confirming that the P2 card icon disappears.

## Rear Panel



The picture shows the rear panel with its cover removed.

### (1)PCIe interface connector

This connects a PCI Express cable.

**<Note>**

Ensure that both the P2 drive and the personal computer are switched off when connecting the cable.

### (2)DC IN 16V Socket

For external use of the P2 drive, connect an AC adapter to this socket.

For the AJ-PCD35EJ only: For external use of the P2 drive, connect the power switch box to this socket.

### (3)DC IN 12V Socket

To use the P2 drive mounted in a personal computer, connect one of the power supply connectors inside the personal computer to this socket. (See page 14)

**<Note>**

Do NOT supply power to both the DC IN 12V socket and DC IN 16V socket at the same time.

### (4)Cable Clamp

Use this clamp to secure the AC adapter cable when connecting the P2 drive to a personal computer for external use of the Drive.

For the AJ-PCD35EJ only: Use this clamp to secure the power switch box cable when connecting the P2 drive to a personal computer for external use of the drive.

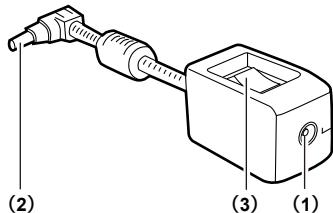
### (5)Antitheft Lock

A commercially available antitheft cable can be connected to this lock.

## Parts and their Functions (continue)

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### Power Switch Box (AJ-PCD35EJ only)



During external use of the P2 drive, connect the power switch box between the drive and the AC adapter.

When the power switch box is connected, you can use the switch to turn off the P2 drive instead of unplugging the power cord.

#### (1)DC IN Socket

Connect the AC adapter to this socket.

##### <Note>

Do not connect anything other than the supplied AC adapter.

#### (2)DC OUT connector

Connect this to the DC IN 16V socket on the P2 drive.

#### (3)Switch

Turn ON the switch when using the P2 drive.  
Turn OFF the switch when the P2 drive is not in use.

When the P2 drive is connected to a personal computer, do not turn OFF the switch while the computer is turned ON. Always turn OFF the computer before turning OFF the switch.

When turning ON the computer, be sure to turn ON the switch and supply power to the P2 drive before turning ON the computer.

##### <Note>

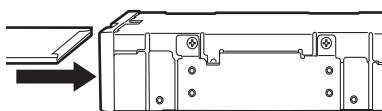
Turning OFF the switch during data transfer may result in loss of data.

# Inserting a P2 Card

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When inserting a P2 card into the slot in the P2 drive, make sure you keep the card horizontal as you ease it in.

Forcing the card in on an angle may cause a problem.



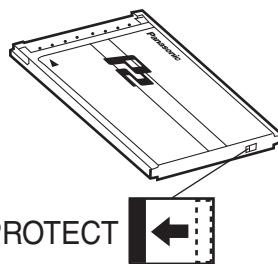
## Write-protection of P2 Card

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A P2 card has a write-protect switch. Setting this switch to "PROTECT" can prevent writing and deleting of data.

Note: The write-protect switch is not effective when the P2 card is inserted in the P2 drive.

Make sure you remove the P2 card from the P2 drive, set the switch, then re-insert the card, in order to effect the switch setting.



PROTECT

Setting the write-protect switch to "PROTECT" can prevent writing and deleting of data.

Setting the write-protect switch to this side allows writing and deleting of data.

## Installation

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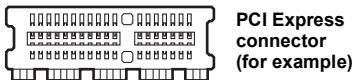
There are two ways to connect the P2 drive to a personal computer (Windows/Apple Macintosh) :

1. Using the P2 drive as an external drive connected to a personal computer (Windows/Apple Macintosh)
2. Mounting the P2 drive in a 5-type bay of a desktop personal computer (Windows)

# Installation (continue)

## To Connect the P2 drive to a Personal Computer for External Use

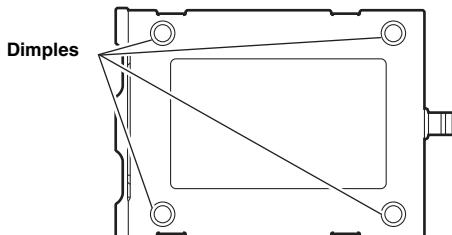
- 1** After switching the personal computer off, remove the power cable from the personal computer.
- 2** After checking that the personal computer is off, remove the cover from the personal computer.
- 3** Insert the PCI Express board included with the P2 drive into the PCI Express connector inside the personal computer.



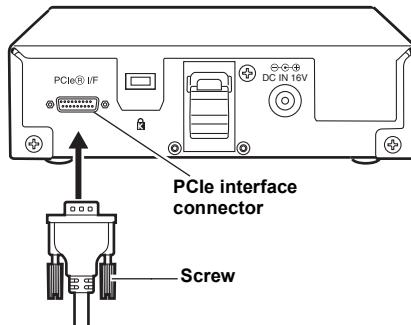
### <Notes>

- Install the PCI Express board with the PCI Express connector. Installing with an ordinary PCI connector may cause damage to the personal computer.
- Since the included PCI Express board uses a full height bracket, it cannot be installed in a low-profile slot.
- Refer to page 12 if you are using Mac Pro (1st Generation).

- 4** Tighten the screws etc to attach the PCI Express board to the personal computer.
- 5** Attach the rubber feet to the dimples on the base of the P2 drive.



- 6** Connect the included PCI Express cable to the PCI Express connector of the P2 drive, and then connect the other end to the PCIe interface connector of the PCI Express board already attached to the personal computer.  
After connecting the cable, tighten the screws on the connector to firmly attach the connector.

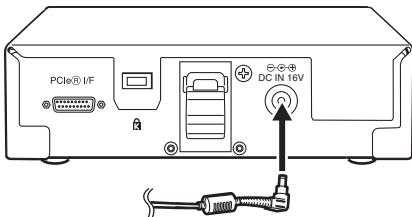


### <Notes>

- When connecting the cable, ensure that both the P2 drive and the personal computer are off.
- Connect after carefully checking the configuration of the PCI Express cable. Connecting the ends in reverse will damage internal parts and cause malfunction.
- Use the PCI Express cable included with the P2 drive. The unit may not operate properly if a commercially available cable of 2 meters or longer is used.

# Installation (continue)

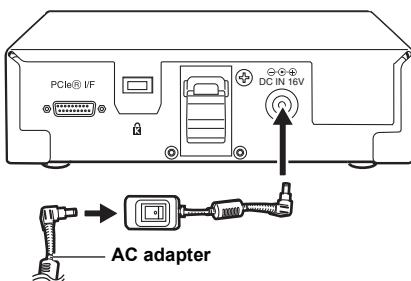
- 7 Connect the AC adapter included with the P2 drive to the unit's DC IN 16V socket. Start up the P2 drive.  
Check that the green light on the unit's power indicator turns on and that the status indicators for all card slots blink about once per second.



For the AJ-PCD35EJ only:

Plug the power switch box supplied with the P2 drive into the DC IN 16V socket on the P2 drive, then plug the supplied AC adapter into the power switch box. The P2 drive will start when you turn ON the switch.

Confirm that the power indicator on the P2 drive lights green, and that the status indicators for each slot blink for about one second.



## <Note>

Disconnect the AC mains plug from the AC mains socket when not in use.

- 8 Start up the personal computer.  
9 Verify that the personal computer recognises the P2 drive.

## <Notes>

- In Windows XP or Windows Vista, some card slots of the P2 drive may be assigned drive names that have already been assigned to existing networks. Reassign network drive names if your personal computer does not display all five card slots.
- Since the P2 drive does not support hot-plugging, do not insert or remove the PCI Express cable with the personal computer power on.
- While the P2 drive and the personal computer are connected, do not insert or remove the unit's AC adapter when the personal computer is on. If the personal computer is on with the unit off, before turning the unit on, turn the personal computer off.

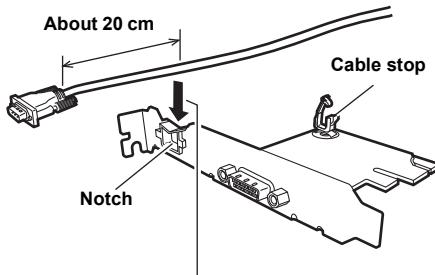
## Pay attention to the items below if you are using Mac Pro (1st Generation).

- Insert the PCI Express board supplied into the slot 1 or 4 in MAC Pro (1st Generation) (Slot number is for using the number of lanes in a normal condition).  
If you insert the board into the slot 2 or 3, change the number of slot lanes to  $\times 4$  or  $\times 8$  before insertion by selecting "System" → "Library" → "CoreServices" → "Expansion Slot Utility".
- If you use more than  $\times 8$  lanes of RAID interface card and this device in combination, operation speed may be limited due to the setting of the number of lanes.

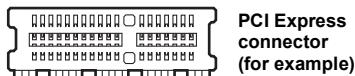
# Installation (continue)

## To Mount the P2 drive in a Personal Computer 5-type Bay

- 1** After switching the personal computer off, remove the power cable from the personal computer.
- 2** After checking that the personal computer is off, remove the cover from the personal computer.
- 3** Put the PCI Express cable included with the P2 drive through the notch in the board bracket about 20 cm from the cable connector.



- 4** Attach the PCI Express cable with the cable stop on the top of the PCI Express board base plate.
- 5** After passing the PCI Express cable through the slot attaching the PCI Express board, insert the PCI Express board into the PCI Express connector inside the personal computer.



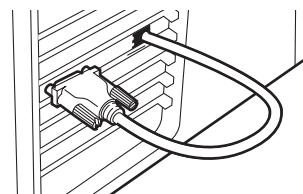
### <Notes>

- Install the PCI Express board with the PCI Express connector. Installing with an ordinary PCI connector may cause damage to the personal computer.
- Since the included PCI Express board uses a full height bracket, it cannot be installed in a low-profile slot.

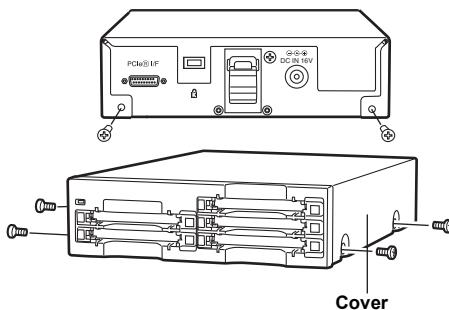
- If you are unable to pass the PCI Express cable through the slot on your personal computer, the P2 drive cannot be mounted in the 5-type bay. In this case, use the P2 drive as an external drive.

- 6** Firmly attach the PCI Express board to the personal computer with the screws etc included with the personal computer. The PCI Express cable will extend about 20 cm from the connector to the exterior of the personal computer.

- 7** Connect the PCI Express cable to the PCIe interface connector of the PCI Express board. After connecting the cable, tighten the screws on the connector to firmly attach the connector. Bend the cable so that it loosely arcs between the area connected to the board and the notch. If the cable is bent sharply, it may disconnect.

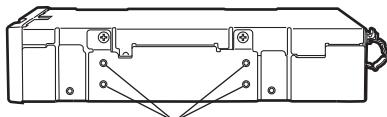


- 8** Undo the six screws and remove the cover.



# Installation (continue)

- 9** Mount the P2 drive in a 5-type bay on the personal computer. Use the screws (page 7) supplied with the P2 drive for mounting.  
**Please refer to your computer's instruction manual for guidance in mounting to 5-type bay drives.**



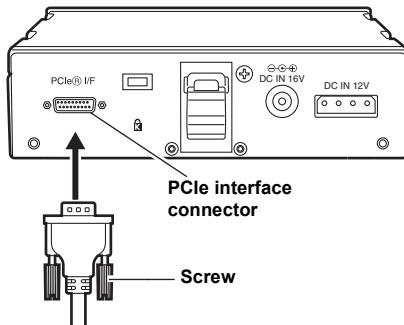
Holes for securing the screws  
(the other side is the same.)

**<Notes>**

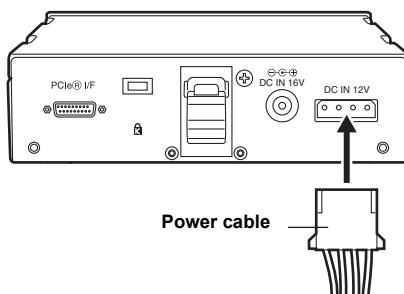
- The P2 drive may not be able to be fastened securely in some types of personal computers.
- If all 5-type bays are occupied, you will need to remove one of the built-in drives to make room for the P2 drive.
- The P2 drive should be used in a personal computer whose design allows the front panel of the Drive to be manipulated.

- 10** Connect the other end of the PCI Express cable to the P2 drive PCIe interface connector.

After connecting the cable, tighten the screws on the connector to firmly attach the connector.



- 11** Connect the P2 drive to the internal power cable (4 pins) of the personal computer.



- 12** Start the personal computer and verify that it recognises the P2 drive.

**<Notes>**

- Use the PCI Express cable included with the P2 drive. The unit may not operate properly if a commercially available cable of 2 meters or longer is used.
- Attach the PCI Express cable so that it is not in direct contact with the heat sink fan or fins inside the personal computer.
- In Windows XP or Windows Vista, some card slots of the P2 drive may be assigned drive names that have already been assigned to existing networks. Reassign network drive names if your personal computer does not display all five card slots.
- Since the P2 drive does not support hot-plugging, do not insert or remove the PCI Express cable with the personal computer power on.
- Connect after carefully checking the configuration of the PCI Express cable. Connecting the ends in reverse will damage internal parts and cause malfunction.
- Depending on the personal computer used, the P2 drive may not be recognized after the personal computer is started. If this happens, disconnect the 4-pin internal power cable, and connect the AC adapter supplied with the P2 drive.

# PCI Express Driver for Windows

This driver is for the PCI Express interface for the P2 card on this unit.

The latest driver information can be viewed at the following website.

<http://pro-av.panasonic.net/>

## 1) Before installation

System requirements for the PCI Express driver are as follows.

- **OS:** Windows XP Professional (SP3) 32 bit  
Windows Vista Business (SP1),  
Ultimate (SP1) 32/64 bit  
Windows 7 Professional, Ultimate  
32/64 bit
- **RAM:** 1 GB or more
- **CPU:** Core 2 Duo 2 GHz or higher is recommended

## 2) Installation of the PCI Express driver

Install the PCI Express driver in accordance with the following procedures.

- 1** In accordance with the descriptions in "4. Installation of the P2 Software" (from pages 5 to 8 of the installation manual), install the software up to Procedure No. 9.
- 2** When the window shown in Figure 10 of Procedure No. 9 (page 8 in the installation manual) is displayed, select "AJ-PCD35 (P2 drive) PCIe driver" and then click OK.
- 3** The warning box may be displayed; in such a case, click "Continue Anyway". The warning box may be displayed two or more times.
- 4** In accordance with the instructions on the screen, complete the installation and restart the personal computer.

### <Notes>

- If a panel not described in this manual is displayed during installation, click "Cancel" or "Complete" to close it.
- When connecting a second additional unit, install the PCI Express driver once more following the same procedures.

## 3) Confirmation of installation of the PCI Express driver

When checking that the PCI Express driver is properly installed, be sure to connect the appropriate device to the personal computer. Devices not connected to the personal computer cannot be checked using the following method:

**For Windows 7,**  
select "Start", right-click "Computer", and select "Property". The System Properties window appears. Click on "Device Manager" at the top left of the window.

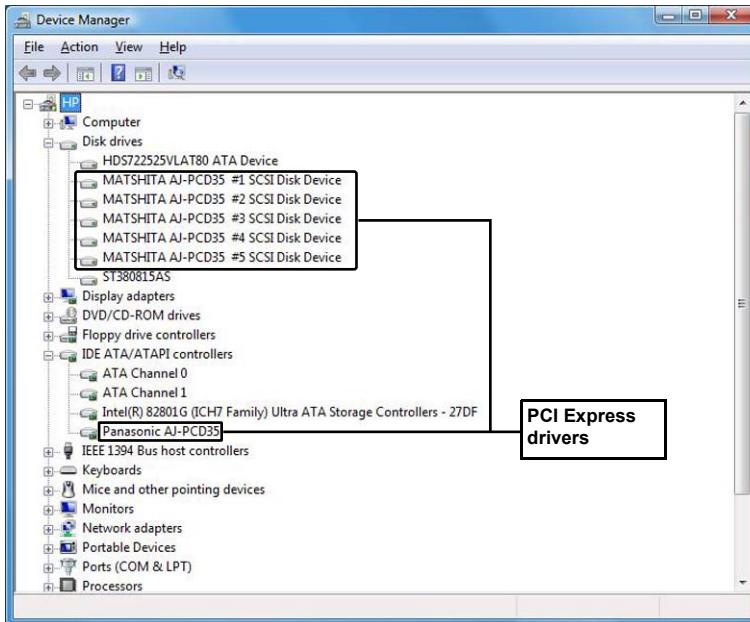
**For Windows Vista,**  
select: "Start" → "Control Panel" → "System". Click on "Device Manager".

**For Windows XP Professional,**  
select: "Start" → "Control Panel" → "System". The System Properties window appears. Select the Hardware tab, then click on "Device Manager".

# PCI Express Driver for Windows (continue)

Check the following items with Device Manager.

- “Panasonic AJ-PCD35” is displayed below “IDE ATA/ATAPI controllers”.
- “MATSHITA AJ-PCD35 #1 SCSI Disk Device” to “MATSHITA AJ-PCD35 #5 SCSI Disk Device” are displayed below “Disk drives”.



# PCI Express Driver for Macintosh

This driver is for the P2 card on this unit.

The latest driver information can be viewed at the following website.

<http://pro-av.panasonic.net/>

## Installation of the PCI Express driver

### For Mac OS X 10.4

- 1** Insert the installation CD.
- 2** Double-click the **Macintosh** folder on the CD.
- 3** Double-click the **Tiger** folder.
- 4** Double-click the **AJ-PCD35** folder.
- 5** Double-click “**PCD35Driver.dmg**” in the **AJ-PCD35** folder.
- 6** Double-click “**PCD35Driver.pkg**”.
- 7** When driver installation starts, follow the instructions on the installation screen.

### For Mac OS X 10.5/10.6/10.7

- 1** Insert the installation CD.
- 2** Double-click the **Macintosh** folder on the CD.
- 3** For Mac OS X 10.5  
Double-click the **Leopard** folder.  
  
For Mac OS X 10.6  
Double-click the **SnowLeopard** folder.  
  
For Mac OS X 10.7  
Double-click the **Lion** folder.
- 4** Double-click the **P2 Drive** folder.
- 5** Double-click “**P2DriveFamilyDriverInstall.dmg**” in the **P2 Drive** folder.

- 6** Double-click “**P2DriveFamilyDriverInstall.pkg**”.

- 7** When driver installation starts, follow the instructions on the installation screen.

### <Notes>

- By installing this driver, it is possible to connect to this unit to the Macintosh using PCI Express to transfer data at a higher rate.
- When the P2 card is removed, drag the icon for the P2 card to Trash and confirm that the P2 card icon disappears before executing removal.
- Reinsert the P2 card if the P2 card icon is not displayed.

### <Reference>

Occasionally, a message regarding “Device Removal” may be displayed when the P2 drive is connected and the Macintosh is turned on. The same message may also be displayed when reinserting the P2 card because the P2 card icon is not displayed, but this is not a malfunction. Click “OK” and proceed to use the card.

# Specifications

**DC 16 V, 0.6 A**

(when used with AC adapter)

**DC 12 V, 0.8 A**

(when mounted in a personal computer)

[ ] indicates safety information.

**External dimensions (W × H × D)**

148.4 mm × 42.5 mm × 199.5 mm

(5-7/8 inches × 1-11/16 inches × 7-7/8 inches)

(excluding protruding parts)

**Weight**

1.2 kg (2.6 lb)

## [AC adapter]

**Power Source:**

AC 100-240 V, 1.20 A, 50-60 Hz

**Power Output:**

DC 16.0 V, 3.75 A

[ ] indicates safety information.

## [Environmental conditions]

**Operating temperature**

0 °C to +40 °C (32 °F to +104 °F)

**Operating humidity**

10% to 80% (w/o condensation)

## [Personal Computer System Requirements]

**OS (proper operation guaranteed)**

Windows XP Professional (SP3) 32 bit

Windows Vista Business (SP1),

Ultimate (SP1) 32/64 bit

Windows 7 Professional, Ultimate 32/64 bit

Mac OS X 10.4.11 (Intel processor)

Mac OS X 10.5.6 (Intel processor)

Mac OS X 10.6.1 (Intel processor)

Mac OS X 10.7.1

**Main Memory**

1 GB or more is recommended

**Interface**

PCI Express Rev1.1 (when using the included

PCI Express board)

## [Card slots]

PC card Type II × 5 (CardBus compliant)

The latest driver information can be viewed at the following website.

<http://pro-av.panasonic.net/>

## **Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)**



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### **For business users in the European Union**

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

### **Information on Disposal in other Countries outside the European Union**

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

**Panasonic Corporation**

Web Site: <http://panasonic.net>